



**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

JUL - 9 1996

9-12

*Lawrence Chen*  
EXECUTIVE SECRETARY June 18, 1996

**To:** Board of Directors (Engineering and Operations Committee--Information)

**From:** General Manager

**Submitted by:** Gary M. Snyder  
Chief Engineer

*Walter Hume*  
*Gary M. Snyder*

**Subject:** Joseph Jensen Filtration Plant Capital Expenditures Update

**RECOMMENDATION**

---

For information only.

**REPORT**

---

At the February 12, 1996, Engineering and Operations Committee meeting, it was requested that information be provided on capital expenditures within the past three years at the Joseph Jensen Filtration Plant (Jensen). This letter provides a cost summary of all Jensen capital projects that have been active since 1993. Projected expenditures through June 30, 1996 are \$200,389,800. Of this amount, \$171,172,000 or 85.4 percent is attributable to Appropriation No. 527, Jensen Expansion No. 1, which was approved by your Board in March 1987. In July 1991, your Board approved Revision No. 4 to Appropriation No. 527 to increase funding to \$185,000,000 to finance all estimated construction costs of Jensen Expansion No. 1.

Attachment 1 provides summary cost information for all capital projects at the Jensen plant that were active within the past three years, as well as information on currently identified upcoming projects for future Board consideration and funding.

JIM\mg:rev2

(jenbdlmb)

Attachment

Jensen Filtration Plant Capital Expenditures  
(1993-1996 Active and Future Projects)

Attachment 1

| Project   | Current<br>Project<br>Phase | Total<br>Estimated<br>Expenditure<br>thru 6-30-96 | Proposed Total<br>Project Estimate |
|---|-----------------------------|---|------------------------------------|
| <b>Existing Projects:</b>                         |                             |   |                                    |
| Expansion No. 1                                   | As-built                    | \$134,330,500                                     | \$136,300,000                      |
| Site Preparation                                  | Complete                    | \$24,432,200                                      | \$24,432,200                       |
| Effluent Flow Control                             | Complete                    | \$77,100  | \$77,100                           |
| Reservoir No. 2 Floating Cover                    | Complete                    | \$1,386,600                                       | \$1,386,600                        |
| Washwater Reclamation Plant O&M Manual            | Complete                    | \$130,900   | \$130,900                          |
| Campus Cabling for Expansion No. 1                | Complete                    | \$146,100   | \$146,100                          |
| Americans with Disabilities Act (ADA) Retrofit    | Complete                    | \$38,200  | \$38,200                           |
| Plant Control System                              | Construction                | \$2,812,400                                       | \$5,000,000                        |
| Permanent Groundwater Dewatering (@ reservoir)    | Construction                | \$365,000   | \$490,000                          |
| Chemical Feed System Expansion                    | Construction                | \$1,846,300                                       | \$1,900,000                        |
| Public Address System for Expansion No. 1         | Construction                | \$92,200  | \$99,000                           |
| Chlorination System for Expansion No. 1           | Construction                | \$2,611,800                                       | \$3,100,000                        |
| Contract 1396 (JWP) Non-Performance Costs         | Construction                | \$463,000   | \$500,000                          |
| Ammonia Facility Relocation                       | Construction                | \$2,931,900                                       | \$3,790,000                        |
| Long-term Chemical Containment                    | Construction                | \$1,740,900                                       | \$2,000,000                        |
| Chemical Tank Farm Mods (seismic)                 | Construction                | \$357,500   | \$430,000                          |
| Traveling Bridge Motor/Controls Replacement       | Construction                | \$30,000  | \$92,800                           |
| Flocculator Retrofit                              | Procurement                 | \$918,000   | \$2,300,000                        |
| Emergency Generator                               | Bids: 7/16/96               | \$786,500   | \$4,815,000                        |
| Ammonia Tank Farm Roof & Misc. Steel Struct.      | Bids: 6/19/96               | \$50,900  | \$800,000                          |
| Reservoir No. 1 Retrofit (weir/baffling)          | Design                      | \$473,400   | \$3,120,000                        |
| Oxidation Retrofit Project (ORP)                  | Design                      | \$23,500,000                                      | \$127,000,000                      |
| Site Improvements (Landscaping)                   | Design                      | \$249,800   | \$2,000,000                        |
| Main Control Bldg HVAC Replacement                | Design                      | \$0   | \$200,200                          |
| Residuals (Sludge) Transfer                       | Study                       | \$168,600   | \$900,000                          |
| Reservoir No. 1 Roof Repair                       | Study                       | \$50,000  | \$2,600,000                        |
| <b>New Projects:</b>                              |                             |   |                                    |
| WWRP No. 2 Sparger System                         | Design                      | \$300,000   | \$1,643,000                        |
| CL2 Mass Flow Meters Installation                 | Design                      | \$0   | \$150,000                          |
| Exp. No. 1 Loop Descriptions                      | Design                      | \$0   | \$150,000                          |
| Ammonia/Sodium Hydroxide 51/52 Vault Upgrade      | Design                      | \$0   | \$215,000                          |
| Emergency Overflow Conduit Repair                 | Design                      | \$0   | \$90,000                           |
| Washwater Return Pumping Station Surge Protection | Study                       | \$0   | \$75,000                           |
| Washwater Return Pumping Station Performance Test | Study                       | \$0   | \$50,000                           |
| Washwater Tank No. 1 Roof Repair                  | Study                       | \$0   | \$250,000                          |
| WWRP No. 2 Structural Upgrade                     | Study                       | \$0   | \$1,500,000                        |
| Reservoir No. 2 Liner Repair                      | Study                       | \$100,000   | \$2,540,000                        |
| Module 1 Filter Media Replacement                 | Study                       | \$0   | \$1,500,000                        |
| <b>TOTAL</b>                                      |                             | \$200,389,800                                     | \$331,811,100                      |